



FORM PTO - 1449
 SECOND SUPPLEMENTAL
 INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MDS-009CN

APPLICANTS: Modell *et al.*

SERIAL NO.: 09/841,325

FILING DATE: April 24, 2001

GROUP: 3737

RECEIVED

JUL 16 2008

TECHNOLOGY CENTER R3700

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
111	A133	2002/0007123 A1	1/17/02	Balas et al	600	476	12/15/00
	A134	3,632,865	1/4/72	Haskell et al.	178	6	12/23/69
	A135	3,890,462	06/17/75	Limb et al	178	6.8	04/17/74
	A136	3,963,019	06/15/75	Quandt et al	128	2	11/25/74
	A137	4,071,020	01/31/78	Puglise et al	128	2	06/3/76
	A138	4,218,703	8/19/80	Netravali et al	358	136	03/16/79
	A139	4,273,110	06/16/81	Groux	128	6	07/11/79
	A140	4,549,229	10/22/85	Nakano et al	360	8	1/31/83
	A141	4,800,571	01/24/89	Konishi	375	10	01/11/88
	A142	5,048,946	09/17/91	Sklar et al	351	206	05/15/90
	A143	5,203,328	4/20/93	Samuels et al	128	633	07/17/91
	A144	5,253,071	10/12/93	MacKay	358	222	12/20/91
	A145	5,289,274	2/22/94	Kondo	348	208	1/31/92
	A146	5,345,941	09/13/94	Rava et al	128	665	3/1/93
	A147	5,349,961	09/27/94	Stoddart et al	128	665	09/27/94
	A148	5,419,323	5/30/95	Kittrell et al	128	653	11/17/89
	A149	5,424,543	06/13/95	Dombrowski et al	250	330	04/19/93
	A150	5,450,857	09/19/95	Garfield et al.	128	778	05/19/94
	A151	5,467,767	11/21/95	Alfano et al	128	665	08/27/93
	A152	5,519,545	5/21/96	Kawahara	360	46	11/29/94
	A153	5,562,100	10/8/96	Kittrell et al	128	665	05/25/94
	A154	5,579,773	12/3/96	Vo-Dinh et al	128	665	09/30/94
	A155	5,582,168	12/10/96	Samuels et al	128	633	01/22/93
	A156	5,599,717	2/4/97	Vo-Dinh	436	63	9/2/94
	A157	5,612,540	3/18/97	Richards-Korum et al	250	461.2	3/31/95
111	A158	5,647,368	7/15/97	Zeng et al	128	665	02/28/96

EXAMINER

R. Smith

DATE CONSIDERED

8/1/03



FORM PTO - 1449	
SECOND SUPPLEMENTAL	
INFORMATION DISCLOSURE STATEMENT	

ATTORNEY DOCKET NO.: MDS-009CN

APPLICANTS: Modell *et al.*

SERIAL NO.: 09/841,325

FILING DATE: April 24, 2001

GROUP: 3737

RECEIVED

JUL 16 2003

TECHNOLOGY CENTER R3700

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
111	A159	5,697,373	12/16/97	Richards-Kortum et al	128	664	03/14/95
	A160	5,699,795	12/23/97	Richards-Kortum	128	634	12/23/97
	A161	5,717,209	2/10/98	Bigman et al	250	339.12	4/29/96
	A162	5,735,276	04/7/98	Lemelson et al	128	653	03/21/95
	A163	5,773,835	6/30/98	Sinofsky et al	250	462.1	06/7/96
	A164	5,791,346	08/11/98	Craine et al.	128	653	8/22/96
	A165	5,840,035	11/24/98	Heusmann et al.	600	47	2/1/96
	A166	5,842,995	12/1/98	Mahadevan-Jansen et al	600	473	6/28/96
	A167	5,920,399	7/6/99	Sandison et al.	356	418	3/18/97
	A168	5,921,926	07/13/99	Rolland et al.	600	407	12/31/97
	A169	5,929,985	07/27/99	Sandison et al	365	318	3/18/97
	A170	5,931,779	08/03/99	Arakaki et al.	600	310	6/6/97
	A171	5,938,617	08/17/99	Vo-Dinh	600	476	12/3/96
	A172	5,989,184	11/23/99	Blair et al	600	167	12/5/97
	A173	5,991,653	11/23/99	Richards-Kortum et al	660	475	6/19/96
	A174	6,069,689	05/30/00	Zeng et al	356	773	4/14/98
	A175	6,091,985	7/18/00	Alfano et al.	600	476	1/23/98
	A176	6,095,982	8/1/00	Richards-Kortum et al	600	476	12/11/97
	A177	6,208,887 B1	03/27/01	Clarke et al	600	476	6/24/99
	A178	6,241,662 B1	06/5/01	Richards-Kortum et al	600	310	10/20/98
	A179	6,246,479 B1	06/12/01	Jung et al	356	419	12/23/99
	A180	6,285,639 B1	9/4/01	Maenza et al	369	47.28	4/29/98
	A181	6,377,842 B1	4/23/02	Pogue et al	600	478	8/23/99
	A182	6,385,484 B2	5/7/02	Nordstrom et al.	600	476	12/15/00
	A183	6,411,835 B1	6/25/02	Modell et al.	600	407	2/2/99
111	A184	6,411,838 B1	6/25/02	Nordstrom et al.	600	476	12/22/99

EXAMINER *R. Smith*DATE CONSIDERED *8/16/03*



FORM PTO - 1449				ATTORNEY DOCKET NO.: MDS-009CN				
SECOND SUPPLEMENTAL				APPLICANTS: Modell <i>et al.</i>				
INFORMATION DISCLOSURE STATEMENT				SERIAL NO.: 09/841,325				
				FILING DATE: April 24, 2001				
				GROUP: 3737				

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>M</i>	A185	6,421,553 B1	7/16/02	Costa et al.	600	476	12/15/00
	A186	6,427,082 B1	7/30/02	Nordstrom et al.	600	476	12/23/99
	A187	5,690,106	11/25/97	Bani-Hashemi et al.	128	653.1	6/30/95
	A188	5,995,645	11/30/99	Soenksen et al.	382	133	12/4/97
	A189	6,058,322	5/2/00	Nishikawa et al.	600	408	7/25/97
	A190	6,246,471 B1	6/12/01	Jung et al.	356	73	1/10/00
	A191	6,312,385 B1	11/6/01	Mo et al.	600	443	5/1/00
<i>M</i>	A192	6,317,617 B1	11/13/01	Gilhuijs et al.	600	408	7/25/97

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B15	0 444 689 A2	9/4/91	EP					Y
	B16	0 737 849 A2	10/16/96	EP					Y
	B17	WO 92/19148	11/12/92	PCT			4/29/92		Y
	B18	WO 97/48331	12/24/97	PCT	<i>No COPIES</i>		6/19/97		
	B19	WO 98/05253	02/12/98	PCT			08/2/96		
	B20	WO 98/24369	06/11/98	PCT			11/20/97	N	Y
	B21	WO 99/18847	4/22/99	PCT			12/14/98		Y
	B22	WO 99/20313	4/29/99	PCT			10/20/98		
	B23	WO 99/20314	4/29/99	PCT			10/20/98		
	B24	WO 99/47041	09/23/99	PCT			03/19/99		
	B25	WO 99/57507	11/11/99	PCT			4/30/99		
	B26	WO 99/57529	11/11/99	PCT			5/4/99		
	B27	WO 00/15101	3/23/00	PCT			9/10/99		

EXAMINER	DATE CONSIDERED



FORM PTO - 1449	ATTORNEY DOCKET NO.: MDS-009CN
SECOND SUPPLEMENTAL	APPLICANTS: Modell <i>et al.</i>
INFORMATION DISCLOSURE STATEMENT	SERIAL NO.: 09/841,325

FILING DATE: April 24, 2001
 GROUP: 3737

RECEIVED

JUL 16 2003

TECHNOLOGY CENTER R3700

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
C15	Agrawal <i>et al.</i> (1999), "Fluorescence Spectroscopy of the Cervix: Influence of Acetic Acid, Cervical Mucus, and Vaginal Medications," <u>Lasers in Surgery and Medicine</u> , 25:237-249.
C16	Althof <i>et al.</i> (1997), "A rapid and automatic image registration algorithm with subpixel accuracy," <u>IEEE Transactions on Medical Imaging</u> , 16(3):308-316.
C17	Aström <i>et al.</i> (1999), "Motion estimation in image sequences using the deformation of apparent contours," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 21(2):114-127.
C18	Balakrishnama <i>et al.</i> , "Linear Discriminant Analysis - A Brief Tutorial," <u>Institute for Signal and Information Processing Department of Electrical and Computer Engineering</u> , 8 pages.
C19	Balas (1997), "An Imaging Colorimeter for Noncontact Tissue Color Mapping," <u>IEEE Transactions on Biomedical Engineering</u> , 44(6):468-474.
C20	Balas (2001), "A Novel Optical Imaging Method for the Early Detection, Quantitative Grading, and Mapping of Cancerous and Precancerous Lesions of Cervix," <u>IEEE Transactions on Biomedical Engineering</u> , 48(1):96-104.
C21	Balas <i>et al.</i> (1997), "A modular diffuse reflection and fluorescence emission imaging colorimeter for the in-vivo study of parameters related with the phototoxic effect in PDT," <u>SPIE</u> , 3191:50-57.
C22	Balas <i>et al.</i> (1998), "In Vivo Assessment of Acetic Acid-Cervical Tissue Interaction Using Quantitative Imaging of Back-Scattered Light: Its Potential Use for the In Vivo Cervical Cancer Detection Grading and Mapping," Part of EUROPTO Conference on Optical Biopsy, Stockholm, Sweden, <u>SPIE</u> , Vol. 3568:31-37.
C23	Balas <i>et al.</i> (1999), "In Vivo Detection and Staging of Epithelial Dysplasias and Malignancies Based on the Quantitative Assessment of Acetic Acid-Tissue Interaction Kinetics," <u>Journal of Photochemistry and Photobiology B: Biology</u> , 53:153-157.
C24	Bessey <i>et al.</i> (1949), "The Fluorometric measurement of the nucleotides of riboflavin and their concentration in tissues," <u>J. Biol.-Chem.</u> , 180:755-769.
C25	Bors <i>et al.</i> (1998), "Optical flow estimation and moving object segmentation based on median radial basis function network," <u>IEEE Transactions on Image Processing</u> , 7(5):693-702.
C26	Bouthemy <i>et al.</i> (1999), "A unified approach to shot change detection and camera motion characterization," <u>IEEE Transactions on Circuits and Systems for Video Technology</u> , 9(7):1030-1044.
C27	Braichotte <i>et al.</i> (1995), "Clinical Pharmacokinetic Studies of Photofrin by Fluorescence Spectroscopy in the Oral Cavity, the Esophagus, and the Bronchi," <u>Cancer</u> 75(11):2760-2778.
C28	Brown (1990), "Chemometrics," <u>Anal. Chem.</u> , 62:84R-101R.
C29	Camus <i>et al.</i> (1997), "Real-time quantized optical flow," <u>Real-Time Imaging</u> , 3:71-86.

EXAMINER	DATE CONSIDERED
----------	-----------------



FORM PTO – 1449
SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MDS-009CN

APPLICANTS: Modell *et al.*

SERIAL NO.: 09/841,325

FILING DATE: April 24, 2001

GROUP: 3737

RECEIVED

JUL 16 2003

TECHNOLOGY CENTER R3700

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
C30	Caplier et al. (1998), "Real-time implementation of a MRF-based motion detection algorithm," <u>Real-Time Imaging</u> , 4:41-54.
C31	Contini et al. (1989), "Colposcopy and Computer Graphics: a New Method?" <u>Amer. J. Obstet. Gynecol.</u> , 160(3):535-538.
C32	Craine et al. (1993), "Digital Imaging Colposcopy: basic concepts and applications," <u>Amer. J. Obstet. Gynecol.</u> , 82(5):869-873.
C33	Craine et al. (1998), "Digital imaging colposcopy: Corrected area measurements using shape-from-shading," <u>IEEE Transactions on Medical Imaging</u> , 17(6):1003-1010. <i>PIE</i>
C34	Crisp et al. (1990), "The Computerized Digital Imaging Colposcope: Future Directions," <u>Amer. J. Obstet. Gynecol.</u> , 162(6):1491-1497.
C35	Cronjé et al. (1997), "Effects of Dilute Acetic Acid on the Cervical Smear," <u>Acta. Cytol.</u> , 41:1091-1094.
C36	Dickman et al. (2001), "Identification of Cervical Neoplasia Using a Simulation of Human Vision," <u>Journal of Lower Genital Tract Disease</u> , 5(3):144-152.
C37	Drezek et al. (1999), "Light scattering from cells: finite-difference time-domain simulations and goniometric measurements," <u>Applied Optics</u> 38(16):3651-3661.
C38	Drezek et al. (2000), "Laser Scanning Confocal Microscopy of Cervical Tissue Before and After Application of Acetic Acid," <u>Am. J. Obstet. Gynecol.</u> , 182(5):1135-1139.
C39	Dumontier et al. (1999), "Real-time DSP implementation for MRF-based video motion detection," <u>IEEE Transactions on Image Processing</u> , 8(10):1341-1347.
C40	Earnshaw et al. (1996), "The Performance of Camera Translation Direction Estimators from Optical Flow: Analysis, Comparison, and Theoretical Limits," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 18(9):927-932.
C41	Edebiri, A.A. (1990), "The relative significance of colposcopic descriptive appearances in the diagnosis of cervical intraepithelial neoplasia," <u>Int. J. Gynecol. Obstet.</u> , 33:23-29.
C42	Eisner et al. (1987), "Use of Cross-Correlation Function to Detect Patient Motion During Spectral Imaging," <u>Journal of Nuclear Medicine</u> , 28(1):97-101.
C43	Ferris et al. (1998), "Colposcopy Quality Control: Establishing Colposcopy Criterion Standards for the NCI ALTS Trial Using Cervigrams," <u>J. Lower Genital Tract Disease</u> , 2(4):195-203.
C44	Fleet et al. (1995), "Recursive Filters for Optical Flow," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 17(1):61-67.
C45	Gao et al. (1998), "A work minimization approach to image morphing," <u>The Visual Computer</u> , 14:390-400.

EXAMINER	DATE CONSIDERED



FORM PTO - 1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	
---	--

ATTORNEY DOCKET NO.: MDS-009CN

APPLICANTS: Modell *et al.*

SERIAL NO.: 09/841,325

FILING DATE: April 24, 2001

GROUP: 3737

RECEIVED

JUL 16 2003

TECHNOLOGY CENTER R3700

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
C46	Gauch (1999), "Image Segmentation and Analysis Via Multiscale Gradient Watershed Hierarchies," <u>IEEE Transactions on Image Processing</u> , 8(1):69-79.
C47	Haralick (1984), "Digital Step Edges from Zero Crossing of Second Directional Derivatives," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 6(1):58-68.
C48	Haris et al. (1998), "Hybrid Image Segmentation Using Watersheds and Fast Region Merging," <u>IEEE Transactions on Image Processing</u> , 7(12):1684-1699.
C49	Helmerhorst et al. (1987), "The accuracy of colposcopically directed biopsy in diagnosis of CIN 2/3," <u>Eur. J. Obstet. Gyn. Reprod. Biol.</u> , 24, 221-229.
C50	Horn et al. (1981), "Determining Optical Flow," <u>Artificial Intelligence</u> , 17(1-3):185-203.
C51	Horn et al. (1993), "Determining Optical Flow": a retrospective, <u>Artificial Intelligence</u> , 59:81-87.
C52	Huang et al. (1979), "A fast two-dimensional median filtering algorithm," <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , 27(1):13-18.
C53	Jackway (1996), "Gradient Watersheds in Morphological Scale-Space," <u>IEEE Transactions on Image Processing</u> , 5(6):913-921.
C54	Ji et al. (2000), "Texture Analysis for Classification of Cervix Lesions," <u>IEEE Transactions on Medical Imaging</u> , 19(11):1144-1149.
C55	Kierkegaard et al. (1995), "Association between Colposcopic Findings and Histology in Cervical Lesions: The Significance of the Size of the Lesion" <u>Gynecologic Oncology</u> , 57:66-71.
C56	Kumar et al. (1996), "Optical Flow: A Curve Evolution Approach," <u>IEEE Transactions on Image Processing</u> , 5(4):598-610.
C57	Linde et al. (1980), "An algorithm for vector quantizer design,: <u>IEEE Transactions on Communications</u> , 28(1):84-95.
C58	MacAulay et al. (2002), "Variation of fluorescence spectroscopy during the menstrual cycle," <u>Optics Express</u> , 10(12):493-504.
C59	MacLean A.B. (1999), "What is Acetowhite Epithelium," <u>Abstract Book; 10th World Congress of Cervical Pathology and Colposcopy, November 7-11</u> , Buenos Aires, Argentina 41.
C60	Marzetta et al. (1999), "A surprising radon transform result and its application to motion detection," <u>IEEE Transactions on Image Processing</u> , 8(8):1039-1049.
C61	Miike et al. (1999), "Motion enhancement for preprocessing of optical flow and scientific visualization," <u>Pattern Recognition Letters</u> , 20:451-461.
C62	Mikhail et al. (1995), "Computerized colposcopy and conservative management of cervical intraepithelial neoplasia in pregnancy," <u>Acta Obstet. Gynecol. Scand.</u> , 74:376-378.



FORM PTO - 1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MDS-009CN

APPLICANTS: Modell *et al.*

RECEIVED

JUL 16 2003

SERIAL NO.: 09/841,325

FILING DATE: April 24, 2001

TECHNOLOGY CENTER R3700

GROUP: 3737

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
	C63 Milanfar (1999), "Two-dimensional matched filtering for motion estimation," <u>IEEE Transactions on Image Processing</u> , 8(3):438-444.
	C64 Mitchell <i>et al.</i> (1998), "Colposcopy for the diagnosis of squamous intraepithelial lesions: a meta-analysis," <u>Obstet. Gynecol.</u> , 91(4):626-631.
	C65 Mycek <i>et al.</i> (1998), "Colonic polyp differentiation using time-resolved autofluorescence spectroscopy," <u>Gastrointestinal Endoscopy</u> , 48(4):390-394.
	C66 Nanda <i>et al.</i> (2000), "Accuracy of the Papanicolaou test in screening for and follow-up of cervical cytologic abnormalities: a systematic review," <u>Ann Intern Med.</u> , 132(10):810-819.
	C67 Nesi <i>et al.</i> (1998), "RET/MAC REaTTime Motion Analysis Chip," <u>IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing</u> , 45(3):361-375.
	C68 Noumeir <i>et al.</i> (1996), "Detection of Motion During Tomographic Acquisition by an Optical Flow Algorithm," <u>Computers and Biomedical Research</u> , 29(1):1-15.
	C69 O'Sullivan <i>et al.</i> (1994), "Interobserver variation in the diagnosis and grading of dyskaryosis in cervical smears: specialist cytopathologists compared with non-specialists," <u>J. Clin. Pathol.</u> , 47(6):515-518.
	C70 Ogura <i>et al.</i> (1995), "A cost effective motion estimation processor LSI using a simple and efficient algorithm," <u>IEEE Transactions on Consumer Electronics</u> , 41(3):690-698.
	C71 Okatani <i>et al.</i> (1997), "Shape reconstruction from an endoscope image by shape from shading technique for a point light source at the projection center," <u>Computer Vision and Image Understanding</u> , 66(2):119-131.
	C72 Pan <i>et al.</i> (1998), "Correlation-feedback Technique in Optical Flow Determination," <u>IEEE Transactions on Image Processing</u> , 7(7):1061-1067.
	C73 Perona <i>et al.</i> (1990), "Scale-space and edge detection using anisotropic diffusion," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 12(7):629-639.
	C74 Pogue <i>et al.</i> (2001), "Analysis of Acetic Acid-Induced Whitening of High-Grade Squamous Intraepithelial Lesions," <u>Journal of Biomedical Optics</u> , 6(4):397-403.
	C75 Radjadyaksha <i>et al.</i> (2000), "Confocal microscopy of excised human skin using acetic acid and crossed polarization: rapid detection of non-melanoma skin cancers," <u>Proceedings of SPIE</u> , 3907:84-88.
	C76 Rakshit <i>et al.</i> (1997), "Computation of Optical Flow Using Basis Functions," <u>IEEE Transactions on Image Processing</u> , 6(9):1246-1254.
	C77 Reid <i>et al.</i> (1985), "Genital warts and cervical cancer. VII. An improved colposcopic index for differentiating benign papillomaviral infections from high-grade CIN," <u>Am. J. Obstet. Gynecol.</u> , 153(6):611-618.
	C78 Romano <i>et al.</i> (1997), "Spectroscopic study of human leukocytes," <u>Physica Medica</u> , 13:291-295.

EXAMINER

DATE CONSIDERED

JUL 1 1 2003
PATENT & TRADEMARK OFFICE

FORM PTO - 1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MDS-009CN APPLICANTS: Modell <i>et al.</i> SERIAL NO.: 09/841,325 FILING DATE: April 24, 2001 GROUP: 3737
--	--

RECEIVED

JUL 16 2003

TECHNOLOGY CENTER R3700

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
	C79 Ruprecht et al. (1995), "Image warping with scattered data interpolation methods," <u>IEEE Computer Graphics and Applications</u> , 37-43.
	C80 Sakuma (1985), "Quantitative Analysis of the Whiteness of the Atypical Cervical Transformation Zone", <u>The Journal of Reproductive Medicine</u> , 30(10):773-776.
	C81 Schmid (1999), "Lesion Detection in Dermatoscopic Images Using Anisotropic Diffusion and Morphological Flooding," <u>Proceedings of the International Conference on Image Processing (ICIP-99)</u> , 3:449-453.
	C82 Schmid (1999), "Segmentation and Symmetry Measure for Image Analysis: Application to Digital Dermatoscopy," <u>Ph.D. Thesis, Swiss Federal Institute of Technology (EPFL), Signal Processing Laboratory (LTS)</u> .
	C83 Schmid (1999), "Segmentation of Digitized Dermatoscopic Images by 2D Color Clustering," <u>IEEE Transactions on Medical Imaging</u> , 18(2):164-171.
	C84 Schomacker et al. (1992), "Ultraviolet Laser-Induced Fluorescence of Colonic Tissue; Basic Biology and Diagnostic Potential" <u>Lasers in Surgery and Medicine</u> , 12:63-78.
	C85 Shafarenko et al. (1997), "Automatic Watershed Segmentation of Randomly Textured Color Images," <u>IEEE Transactions on Image Processing</u> , 6(11):1530-1544.
	C86 Shafi et al. (1995), "Modern image capture and data collection technology," <u>Clin. Obstet. Gynecol.</u> , 38(3):640-643.
	C87 Szarewski et al., (1996), "Effect of smoking cessation on cervical lesions size," <u>Lancet</u> , 347:941-943.
	C88 Szeliski et al. (1997), "Spline-based image registration," <u>International Journal of Computer Vision</u> , 22(3):199-218.
	C89 Tadrous (2000), "Methods for Imaging the Structure and Function of Living Tissues and Cells: 2. Fluorescence Lifetime Imaging," <u>Journal of Pathology</u> , 191(3):229-234.
	C90 Thirion et al. (1999), "Deformation analysis to detect and quantify active lesions in three-dimensional medical image sequences," <u>IEEE Transactions on Medical Imaging</u> , 18(5):429-441.
	C91 Toglia et al. (1997), "Evaluation of colposcopic skills in an obstetrics and gynecology residency training program," <u>J. Lower Gen. Tract. Dis.</u> , 1(1):5-8.
	C92 Treameau et al. (1997), "A Region Growing and Merging Algorithm to Color Segmentation," <u>Pattern Recognition</u> , 30(7):1191-1203.
	C93 Van den Elsen et al. (1995), "Automatic registration of ct and mr brain images using correlation of geometrical features," <u>IEEE Transactions on medical imaging</u> , 14(2):384-396.
	C94 Vernon (1999), "Computation of Instantaneous Optical Flow Using the Phase of Fourier Components," <u>Image and Vision Computing</u> , 17:189-199.

EXAMINER	DATE CONSIDERED
----------	-----------------



FORM PTO - 1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTORNEY DOCKET NO.: MDS-009CN APPLICANTS: Modell <i>et al.</i> SERIAL NO.: 09/841,325 FILING DATE: April 24, 2001 GROUP: 3737
OTHER ART, JOURNAL ARTICLES, ETC.		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
C95	Vincent et al. (1991), "Watersheds in Digital Spaces: An Efficient Algorithm Based on Immersion Simulations," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 13(6):583-598.	
C96	Vincent et al. (1993), "Morphological grayscale reconstruction in image analysis: Applications and efficient algorithms," <u>IEEE Transactions on Image Processing</u> , 2(2):176-201.	
C97	Wang et al. (1999), "Fast algorithms for the estimation of motion vectors," <u>IEEE Transactions on Image Processing</u> , 8(3):435-438.	
C98	Weng et al. (1997), "Three-Dimensional Surface Reconstruction Using Optical Flow for Medical Imaging," <u>IEEE Transactions on Medical Imaging</u> , 16(5):630-641.	
C99	Wolberg et al. (1998) "Image morphing: a survey," <u>The Visual Computer</u> , 14:360-372.	
C100	You et al. (1996), "Behavioral analysis of anisotropic diffusion in image processing," <u>IEEE Transactions on Image Processing</u> , 5(11):1539-1556.	
C101	Zahm et al. (1998), "Colposcopic appearance of cervical intraepithelial neoplasia is age dependent," <u>Am. J. Obstet. Gynecol.</u> , 179(5):1298-1304.	
C102	Zeger et al. (1992), "Globally optimal vector quantizer design by stochastic relaxation," <u>IEEE Transactions on Signal Processing</u> , 40(2):310-322.	
C103	Zeng et al. (1993), "A computerized autofluorescence and diffuse reflectance spectroanalyser system for <i>in vivo</i> skin studies," <u>Phys. Med. Biol.</u> , 38:231-240.	
C104	Zeng et al. (1997), "Optimization of fast block motion estimation algorithms," <u>IEEE Transactions on Circuits and Systems for Video Technology</u> , 7(6):833-844.	
C105	Zhang et al. (1999), "Shape from shading: a survey," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 21(8):690-706.	
C106	Zheng et al. (1991), "Estimation of illumination direction, albedo, and shape from shading," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 13(7):680-702.	
C107	Zhengfang et al. (1998), "Identification of Colonic Dysplasia and Neoplasia by Diffuse Reflectance Spectroscopy and Pattern Recognition Techniques," <u>Applied Spectroscopy</u> , 52(6):833-839.	

2639376

RECEIVED
JUL 16 2003

TECHNOLOGY CENTER R3700

EXAMINER	DATE CONSIDERED
-----------------	------------------------



FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: MDS-009CN (6219/15) APPLICANT(S): Modell et al. SERIAL NO.: 09/841,325 FILING DATE: April 24, 2001 GROUP: 3737			
U.S. PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
104	A1	3,013,467	12/19/61	Minsky	88	14	
	A2	4,017,192	4/12/77	Rosenthal et al	356	201	
	A3	4,198,571	4/15/80	Sheppard	250	571	
	A4	4,254,421	3/3/81	Kreutel, Jr.	343	754	
	A5	4,357,075	11/2/82	Hunter	350	294	
	A6	4,397,557	8/9/83	Herwig et al.	356	342	
	A7	4,733,063	3/22/88	Kimura et al.	250	201	
	A8	4,753,530	6/28/88	Knight et al.	356	73	
	A9	4,844,617	7/4/89	Kelderman et al.	356	372	
	A10	4,845,352	7/4/89	Benschop	250	201	
	A11	4,852,955	8/1/89	Doyle et al.	350	1.2	
	A12	4,930,516	6/5/90	Alfano et al.	128	665	
	A13	4,965,441	10/23/90	Picard	250	201.3	
	A14	4,972,258	11/20/90	Wolf et al.	358	93	
	A15	4,997,242	3/5/91	Amos	350	6.91	
	A16	5,011,243	4/30/91	Doyle et al.	350	1.2	
	A17	5,028,802	7/2/91	Webb et al.	250	571	
	A18	5,032,720	7/16/91	White	250	236	
	A19	5,034,613	7/23/91	Denk et al.	250	458.1	
	A20	5,042,494	8/27/91	Alfano	128	665	
	A21	5,054,926	10/8/91	Dabbs et al.	356	345	
	A22	5,065,008	11/12/91	Hakamata et al.	250	216	
	A23	5,071,246	12/10/91	Blaha et al	351	221	
	A24	5,074,306	12/24/91	Green et al.	128	664	
<i>104</i> <i>RLH/M</i>				DATE CONSIDERED <i>8/10/01</i>			

RECEIVED
JUL 16 2001
U.S. PATENT & TRADEMARK OFFICE
MAIL ROOM



SHEET 2 OF 5

FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: MDS-009CN (6219/15) APPLICANT(S): Modell et al. SERIAL NO.: 09/841,325 FILING DATE: April 24, 2001 GROUP: 3737			
U.S. PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>M</i>	A25	5,083,220	1/21/92	Hill	359	234	
	A26	5,091,652	2/25/92	Mathies et al.	250	458.1	
	A27	5,120,953	6/9/92	Harris	250	227.20	
	A28	5,122,653	6/16/92	Ohki	250	216	
	A29	5,132,526	7/21/92	Iwasaki	250	201.3	
	A30	5,139,025	8/18/92	Lewis et al.	128	665	
	A31	5,161,053	11/3/92	Dabbs	359	384	
	A32	5,162,641	11/10/92	Fountain	250	201.2	
	A33	5,162,941	11/10/92	Favro et al.	359	386	
	A34	5,168,157	12/1/92	Kimura	250	234	
	A35	5,192,980	3/9/93	Dixon et al.	356	326	
	A36	Re. 34,214	4/6/93	Carlsson et al.	358	93	
	A37	5,201,318	4/13/93	Rava et al.	128	665	
	A38	5,225,671	7/6/93	Fukuyama	250	216	
	A39	5,235,457	8/10/93	Lichtman et al.	359	368	
	A40	5,239,178	8/24/93	Derndinger et al.	250	234	
	A41	5,248,876	9/28/93	Kerstens et al.	250	561	
	A42	5,260,569	11/9/93	Kimura	250	234	
	A43	5,260,578	11/9/93	Bliton et al.	250	461.1	
	A44	5,262,646	11/16/93	Booker et al.	250	341	
	A45	5,274,240	12/28/93	Mathies et al.	250	458.1	
	A46	5,284,149	2/8/94	Dhadwal et al.	128	665	
<i>M</i>	A47	5,286,964	2/15/94	Fountain	250	201.2	
EXAMINER <i>Rhett</i>				DATE CONSIDERED <i>8/10/03</i>			

RECEIVED
U.S. PATENT & TRADEMARK OFFICE
SEP 6 2001
RC 310 MAIL ROOM





INFORMATION DISCLOSURE STATEMENT		ATTORNEY DOCKET NO.: MDS-009CN (6219/15)
		APPLICANT(S): Modell et al.
		SERIAL NO.: 09/841,325
		FILING DATE: April 24, 2001 GROUP: 3737

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B1	SU1223092	4/7/86	Boro					100-1000 SEP-13 2001
	B2	EP-A-0280418	8/31/88						RECEIVED MAIL ROOM
	B3	EP-A-0335725	10/4/89						
	B4	EP-A-0474264	3/11/92						
	B5	EP-A-0641542	3/8/95						
	B6	WO 94/26168	11/24/94	PCT					
	B7	WO 97/05473	2/13/97	PCT					

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
	C1 P. Davidovits et al. "Scanning Laser Microscope for Biological Investigations", Applied Optics, Vol. 10, No. 7, pp. 1615-1619, July 1971.
	C2 C.J.R. Sheppard et al. "Depth of Field in the Scanning Microscope", Optics Letters, Vol. 3, No. 3, September 1978, pp. 115-117.
	C3 C.J. Koester, "Scanning Mirror Microscope with Optical Sectioning Characteristics: Applications in Ophthalmology", Applied Optics, Vol. 19, No. 11, June 1980, pp. 1749-1757.
	C4 T. Wilson., "The Role of the Pinhole in Confocal Imaging Systems", Confocal Microscopy Handbook, pp. 99-113.
	C5 C. Koester, "Comparison of Optical Sectioning Methods: The Scanning Slit Confocal Microscope", Confocal Microscope Handbook, pp. 189-194.

EXAMINER	DATE CONSIDERED
----------	-----------------



SHEET 5 OF 5

FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MDS-009CN (6219/15)

APPLICANT(S): Modell et al.

SERIAL NO.: 09/841,325

FILING DATE: April 24, 2001 GROUP: 3737

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
C6	Jeffrey W. Hall, et al. "Near-Infrared Spectrophotometry: A New Dimension in Clinical Chemistry", Clin. Chem. 38/9, 1623-1631 (1992).
C7	Kevin T. Schomacker, et al. "Ultraviolet Laser-Induced Fluorescence of Colonic Tissue; Basic Biology and Diagnostic Potential", Lasers in Surgery and Medicine, 12: 63-78, (1992).
C8	S. Schwartz, "Real-time laser-scanning Confocal ratio imaging", American Laboratory, pp. 53-62 April 1993.
C9	R. Richards-Kortum et al. "Description and Performance of a Fiber-optic Confocal Fluorescence Spectrometer, Applied Spectroscopy, Vol. 48, No. 3 pp. 350-355. (1994). <i>Not Considered</i>
C10	J.M. Schmitt et al. "Interferometric Versus Confocal Techniques for Imaging Microstructures in Turbid Biological Media", Proc. SPIE, 2135 (1994), pp. 1-12.
C11	N. Ramanujam et al. "Fluorescence Spectroscopy; A Diagnostic Tool for Cervical Intraepithelial Neoplasia (CIN)", Gynecologic Oncology 52, pp. 31-38 (1994).
C12	S.G. Anderson, "Confocal Laser Microscopes See A Wider Field of Application", Laser Focus World, pp. 83-86, February 1994.
C13	J.M. Schmitt et al. "Confocal Microscopy in Turbid Media", J. Opt. Soc. Am., Vol. 11, pp. 2225-2235, August 1994.
C14	N. Ramanujam et al. "In vivo diagnosis of cervical intraepithelial neoplasia using 337-nm-exited laser-induced fluorescence", Pro. Natl. Acad. Sci. USA, Vol. 91, pp. 10193-10197, October 1994.
EXAMINER	DATE CONSIDERED

2136413_1



FORM PTO-1445 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: MDS-0095 APPLICANT(S): Modell et al. SERIAL NO.: 09/841,325 FILING DATE: April 24, 2001
				GROUP 37301 RECEIVED DEC 13 2001 TECHNOLOGY CENTER R3 U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
ill	A65	3,809,072	5/7/74	Ersek et al.	128	23	
	A66	4,662,360	5/5/87	O'Hara et al.	128	9	
	A67	4,741,326	5/3/88	Sidall et al.	128	4	
	A68	4,768,513	9/6/88	Suzuki	128	634	
	A69	4,877,033	10/31/89	Seitz, jr.	128	660.05	
	A70	4,878,485	11/07/89	Adair	128	6	
	A71	4,891,829	1/2/90	Deckman et al.	378	4	
	A72	4,945,478	7/31/90	Merickel et al.	364	413.22	
	A73	4,974,580	12/04/90	Anapliotis	128	4	
	A74	4,979,498	12/25/90	Oneda et al.	128	6	
	A75	5,003,979	4/2/91	Merickel et al.	364	413.22	
	A76	5,022,757	6/11/91	Modell	356	318	
	A77	5,036,853	8/6/91	Jeffcoat et al.	128	634	
	A78	5,154,166	10/13/92	Chikama	128	4	
	A79	5,159,919	11/03/92	Chikama	128	4	
	A80	5,201,908	4/13/93	Jones	128	4	
	A81	5,237,984	8/24/93	Williams, III et al.	128	4	
	A82	5,257,617	11/2/93	Takahashi	128	4	
	A83	5,261,410	11/16/93	Alfano et al.	128	664	
	A84	5,321,501	6/14/94	Swanson et al.	356	345	
	A85	5,325,846	7/5/94	Szabo	128	4	
	A86	5,337,734	8/16/94	Saab	128	4	
	A87	5,398,685	3/21/95	Wilk et al.	128	653.1	
	A88	5,402,768	4/4/95	Adair	128	4	
	A89	5,406,939	4/18/95	Bala	128	4	
ll	A90	5,413,092	5/9/95	Williams, III et al.	128	4	

EXAMINER <i>Rhonda</i>	DATE CONSIDERED <i>8/10/01</i>
------------------------	--------------------------------



FORM PTO - 1449
SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MDS-009CN

APPLICANT(S): Modell et al.

SERIAL NO.: 09/841,325

FILING DATE: April 24, 2001

GROUP: 3737

RECEIVED
DEC 13 2001
TECHNOLOGY CENTER
RE

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
14	A91	5,413,108	5/9/95	Alfano	128	665	
	A92	5,415,157	5/16/95	Welcome	128	4	
	A93	5,419,311	5/30/95	Yabe et al.	128	4	
	A94	5,421,339	6/6/95	Ramanujam et al.	128	665	
	A95	5,458,132	10/17/95	Yabe et al.	128	4	
	A96	5,458,133	10/17/95	Yabe et al.	600	121	
	A97	5,507,295	4/16/96	Skidmore	600	121	
	A98	5,516,010	5/14/96	O'Hara et al.	600	122	
	A99	5,529,235	6/25/96	Bolarski et al.	227	175.1	
	A100	5,536,236	7/16/96	Yabe et al.	600	125	
	A101	5,545,121	8/13/96	Yabe et al.	600	121	
	A102	5,551,945	9/3/96	Yabe et al.	600	122	
	A103	5,556,367	9/17/96	Yabe et al.	600	124	
	A104	5,596,992	1/28/97	Haaland et al.	128	664	
	A105	5,609,560	3/11/97	Ichikawa et al.	600	101	
	A106	5,623,932	4/29/97	Ramanujam et al.	128	665	
	A107	5,662,588	9/2/97	Lida	600	121	
	A108	5,685,822	11/11/97	Harhen	600	125	
	A109	5,693,043	12/2/97	Kittrell et al.	606	15	
	A110	5,695,448	12/9/97	Kimura et al.	600	121	
	A111	5,704,892	1/6/98	Adair	600	121	
	A112	5,707,343	1/13/98	O'Hara et al.	600	121	
	A113	5,713,364	2/3/98	DeBaryshe et al.	128	664	
	A114	5,730,701	3/24/98	Furukawa et al.	600	127	
	A115	5,733,244	3/31/98	Yasui et al.	600	127	
	A116	5,746,695	5/5/98	Yasui et al.	600	127	
	A117	5,768,333	6/16/98	Abdel-Mottaleb	378	37	
14	A118	5,769,792	6/23/98	Palcic et al.	600	477	

EXAMINER

DATE CONSIDERED

8/6/03

FORM PTO - 1449

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MDS-009CN

APPLICANT(S): Modell et al.

SERIAL NO.: 09/841,325

FILING DATE: April 24, 2001 GROUP: 3737

EXAMINER INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
W	A119	5,795,632	8/18/98	Buchalter	428	35.2	
	A120	5,800,350	9/1/98	Coppleson et al.	600	372	
	A121	5,807,248	9/15/98	Mills	600	322	
	A122	5,813,987	9/29/98	Modell et al.	600	473	
	A123	5,817,015	10/6/98	Adair	600	121	
	A124	5,833,617	11/10/98	Hayashi	600	476	
	A125	5,855,551	1/5/99	Sklandnev et al.	600	372	
	A126	5,860,913	1/19/99	Yamaya et al.	600	127	
	A127	5,865,726	2/2/99	Katsurada et al.	600	127	
	A128	5,876,329	3/2/99	Harhen	600	125	
	A129	6,104,945	8/15/00	Modell et al.	600	473	
	A130	6,119,031	9/12/00	Crowley	600	407	
	A131	6,146,897	11/14/00	Cohenford et al.	436	63	
W	A132	6,169,817 B1	1/2/01	Parker et al.	382	131	

EXAMINER

DATE CONSIDERED

8/6/03



RECEIVED
DEC 13 2001
TECHNOLOGY CENTER
R2700

FORM PTO - 149 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	
--	--

ATTORNEY DOCKET NO.: MDS-009CN
APPLICANT(S): Modell et al.
SERIAL NO.: 09/841,325
FILING DATE: April 24, 2001 GROUP 3737

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B8	1 223 092	4/7/86	SU				In English	N
	B9	0 135 134	3/27/85	EP					Y
	B10	0 689 045 A1	12/27/95	EP					Y
	B11	WO 93/14688	8/5/93	PCT					Y
	B12	WO 95/04385	2/9/95	PCT					Y
	B13	WO 98/30889	2/13/97	PCT					Y
	B14	WO 98/41176	9/24/98	PCT					Y

2191413

EXAMINER	DATE CONSIDERED
----------	-----------------